

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: EVANS, RONALD M.

 MCKEOWN, MICHAEL B.

 ORO, ANTHONY E.

 SEGRAVES, WILLIAM A.

 YAO, TSO-PANG
 - (ii) TITLE OF INVENTION: MULTIMERIC FORMS OF MEMBERS OF THE STEROID/THYROID SUPERFAMILY OF RECEPTORS WITH THE ULTRASPIRACLE RECEPTOR
 - (iii) NUMBER OF SEQUENCES: 29
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK
 - (B) STREET: 444 South Flower Street, Suite 2000
 - (C) CITY: Los Angeles
 - (D) STATE: California
 - (E) COUNTRY: United States
 - (F) ZIP: 90071
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/907,908
 - (B) FILING DATE: 02-JUL-1992
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Reiter,, Stephen E.
 - (B) REGISTRATION NUMBER: 31192
 - (C) REFERENCE/DOCKET NUMBER: P41 9321
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (619) 546-4737
 - (B) TELEFAX: (619) 546-9392
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2304 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 163..1701
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGACACGGTG GCGTTGGCAA AGTGAAACCC CAACAGAGAG GCGAAAGCGA GCCAAGACAC

CCA	GTTC	CTC (CAAT	ATAC	CC A	GCAC	CACA'	T CA	CAAG	CCCA		AAC ' Asn (174
	CAG Gln													222
	GAC Asp													270
	GCC Ala													318
	CTG Leu												GGA Gly	366
	GCC Ala 70													414
	GCA Ala													462
	CAC His													510
	GTG Val													558
	AAG Lys													606
	AAG Lys 150													654
	ACC Thr													702
	GCC Ala													750
	GGT Gly													798
	GGC Gly													846
	ATG Met 230													894
	GCC Ala													942

						TAT Tyr											990
						CAA Gln											1038
						ATG Met											1086
						AAA Lys 315											1134
						ATC Ile											1182
						GGC Gly											1230
						CAG Gln											1278
						AAA Lys											1326
						GTA Val 395											1374
						AAG Lys											1422
						GCG Ala											1470
						CAC His											1518
						CTG Leu										•	1566
						TCA Ser 475										`	1614
						CTT Leu											1662
						ACT Thr							TAAA	AGTCO	GCC		1711
ccc	TTC	rcc #	ATCC	SAAA	AA TO	TTTC	CATTO	TG?	ATTGO	CGTT	TGTT	TGC	ATT I	CTC	CTCTC	r	1771
ATC	CCTAC	CAA A	AAGC	ccc	ra at	TATTA	ACGC	AAA	ATGTO	TAT	GTA	ATTGT	TT F	ATTTI	TTTT	r	1831

不知是是原因的 医克里氏试验检尿病 超速电子 医加勒德勒氏线检查疗法检查检查检查 医超光线管 机甲子的 医乳球菌素 医结束性 医克里特氏病

TATTACCTAA	TATTATTATT	ATTATTGATA	TAGAAAATGT	TTTCCTTAAG	ATGAAGATTA	1891
GCCTCCTCGA	CGTTTATGTC	CCAGTAAACG	AAAAACAAAC	AAAATCCAAA	ACTTGAAAAG	1951
AACACAAAAC	ACGAACGAGA	AAATGCACAC	AAGCAAAGTA	AAAGTAAAAG	TTAAACTAAA	2011
GCTAAACGAG	TAAAGATATT	AAAATAACGG	TTAAAATTAA	TGCATAGTTA	TGATCTACAG	2071
ACGTATGTAA	ACATACAAAT	TCAGCATAAA	TATATATGTC	AGCAGGGGCA	TATCTGCGGT	2131
GCTGGCCCCG	TTCTAAACCA	ATTGTAATTA	CTTTTTAACA	TAAATTTACC	CAAAACGTTA	2191
TCAATTAGAT	GCGAGATACA	AAAATCACCG	ACGAAAACCA	ACAAAATATA	TCTATGTATA	2251
AAAAATATAA	GCTGCATAAC	ААААААААА	ААААААААА	ААААААААА	AAA	2304

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Met Asp Asn Cys Asp Gln Asp Ala Ser Phe Arg Leu Ser His Ile Lys Glu Glu Val Lys Pro Asp Ile Ser Gln Leu Asn Asp Ser Asn Asn Ser Ser Phe Ser Pro Lys Ala Glu Ser Pro Val Pro Phe Met Gln Ala Met 35 40 Ser Met Val His Val Leu Pro Gly Ser Asn Ser Ala Ser Ser Asn Asn Asn Ser Ala Gly Asp Ala Gln Met Ala Gln Ala Pro Asn Ser Ala Gly Gly Ser Ala Ala Ala Ala Val Gln Gln Tyr Pro Pro Asn His Pro 90

Leu Ser Gly Ser Lys His Leu Cys Ser Ile Cys Gly Asp Arg Ala Ser

Gly Lys His Tyr Gly Val Tyr Ser Cys Glu Gly Cys Lys Gly Phe Phe

Lys Arg Thr Val Arg Lys Asp Leu Thr Tyr Ala Cys Arg Glu Asn Arg

Asn Cys Ile Ile Asp Lys Arg Gln Arg Asn Arg Cys Gln Tyr Cys Arg 145 150 155

Tyr Gln Lys Cys Leu Thr Cys Gly Met Lys Arg Glu Ala Val Gln Glu

Glu Arg Gln Arg Gly Ala Arg Asn Ala Ala Gly Arg Leu Ser Ala Ser

Gly Gly Ser Ser Gly Pro Gly Ser Val Gly Gly Ser Ser Ser Gln 200

Gly Gly Gly Gly Gly Gly Val Ser Gly Gly Met Gly Ser Gly Asn 215 Gly Ser Asp Asp Phe Met Thr Asn Ser Val Ser Arg Asp Phe Ser Ile Glu Arg Ile Ile Glu Ala Glu Gln Arg Ala Glu Thr Gln Cys Gly Asp 245 250 Arg Ala Leu Thr Phe Leu Arg Val Gly Pro Tyr Ser Thr Val Gln Pro Asp Tyr Lys Gly Ala Val Ser Ala Leu Cys Gln Val Val Asn Lys Gln 280 Leu Phe Gln Met Val Glu Tyr Ala Arg Met Met Pro His Phe Ala Gln 295 300 Val Pro Leu Asp Asp Gln Val Ile Leu Leu Lys Ala Ala Trp Ile Glu Leu Leu Ile Ala Asn Val Ala Trp Cys Ser Ile Val Ser Leu Asp Asp Gly Gly Ala Gly Gly Gly Gly Gly Leu Gly His Asp Gly Ser Phe Glu Arg Arg Ser Pro Gly Leu Gln Pro Gln Gln Leu Phe Leu Asn Gln Ser Phe Ser Tyr His Arg Asn Ser Ala Ile Lys Ala Gly Val Ser Ala 375 Ile Phe Asp Arg Ile Leu Ser Glu Leu Ser Val Lys Met Lys Arg Leu 390 395 Asn Leu Asp Arg Arg Glu Leu Ser Cys Leu Lys Ala Ile Ile Leu Tyr Asn Pro Asp Ile Arg Gly Ile Lys Ser Arg Ala Glu Ile Glu Met Cys Arg Glu Lys Val Tyr Ala Cys Leu Asp Glu His Cys Arg Leu Glu His Pro Gly Asp Asp Gly Arg Phe Ala Gln Leu Leu Leu Arg Leu Arg Arg 455 Phe Ala Ile Asp Gln Pro Glu Val Pro Gly Ser Pro Val Pro Leu Pro His Tyr Gln Arg Pro Ala Ala Gly Gly Ala Leu Ser Arg Ala Ala Gly Gly Ala Ala Thr Arg Pro Gly Asp Glu Thr Gly Val Gly Ser Arg

505

Leu

500

,				•					49								
(2)	INFO	RMAT	ION	FOR .	SEQ	ID N	0:3:										
	(i)	(A (B (C) LE) TY:) ST:	NGTH PE: RAND	ARAC : 71 amin EDNE: GY: 1	ami o ac. SS: 1	no a id unkn	cids									
•	(ii)	MOL	ECUL:	E TY	PE:]	pept	ide				٠	•					
	(xi)	SEQ	UEŅC:	E DE	SCRI	PTIO	N: S	EQ I	ои с	:3:			•				
	Cys 1	Xaa	Xaa	Cys	Xaa 5	Xaa	Asp	Xaa	Ala	Xaa 10	Gly	Xaa	Tyr	Xaa	Xaa 15	Xaa	
	Xaa	Cys	Xaa	Xaa 20	Cys	Lys	Xaa	Phe	Phe 25	Xaa	Arg	Xaa	Xaa	Xaa 30	Xaa	Xaa	
	Xaa	Xaa	Xaa 35	Xaa	Xaa	Xaa	Cys	Xaa 40	Xaa	Xaa	Xaa	Xaa	Xaa 45	Xaa	Xaa	Cys	
	Xaa	Xaa 50	Xaa	Lys	Xaa	Xaa	Arg 55	Xaa	Xaa	Cys	Xaa	Xaa 60	Cys	Arg	Xaa	Xaa	
	Lys 65	CAa	Xaa	Xaa	Xaa	Gly 70	Met										
(2)	INFO	RMAT	ION	FOR S	SEQ :	ID NO	0:4:										
	(i)	(A (B (C) LEI) TYI) STI	NGTH: PE: 1 RAND!	ARACT 15 nucle EDNES	base eic a	e pa: acid sing:	irs									
	(xi)	SEQ	JENCI	E DES	SCRII	PTIO	N: SI	EQ II	ONO:	:4:					×		
AGGT	CAAG	GA GO	STCA														15
(2)	INFO	RMAT	ON I	FOR S	SEQ I	EĎ NO	0:5:										

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: GGGTGAATGA GGACA

15

(2)	INFORMATION FOR SEQ ID NO:6:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
GGGT	TGAACGG GGGCA	15
(2)	INFORMATION FOR SEQ ID NO:7:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GGTT	CCACGAG GTTCA	15
(2)	INFORMATION FOR SEQ ID NO:8:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
AGGI	CCACAGG AGGTCA	16
(2)	INFORMATION FOR SEQ ID NO:9:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
ĂGGI	GACAGG AGGTCA	16

(2)	INFORMATION FOR SEQ ID NO:10:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
AGGI	CGACAGG AGGACA	16
. (2)	INFORMATION FOR SEQ ID NO:11:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
GGGT	TAGGGG AGGACA	16
(2)	INFORMATION FOR SEQ ID NO:12:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
GGGT	CATTTC AGGTCC	16
(2)	INFORMATION FOR SEQ ID NO:13:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
N C C M	CACCAC CACCEGA	

(2) INFORMATION FO	OR SEQ ID NO:14:			
(A) LENG (B) TYPI (C) STRI	CHARACTERISTICS: GTH: 17 base pairs E: nucleic acid ANDEDNESS: single DLOGY: linear			
		V.	• .	
(xi) SEQUENCE	DESCRIPTION: SEQ ID	NO:14:		
AGGTGAACAG GAGGTC	A.			17
(2) INFORMATION FO	OR SEQ ID NO:15:			
(A) LENG (B) TYPI (C) STR	CHARACTERISTICS: STH: 17 base pairs E: nucleic acid ANDEDNESS: single DLOGY: linear			
(xi) SEQUENCE	DESCRIPTION: SEQ ID	NO:15:		
GGTTCACCGA AAGTTCA	A			17
(2) INFORMATION FO	OR SEQ ID NO:16:	•		
(A) LENG (B) TYPI (C) STRA	CHARACTERISTICS: GTH: 17 base pairs E: nucleic acid ANDEDNESS: single DLOGY: linear			
(xi) SEQUENCE	DESCRIPTION: SEQ ID	NO:16:		
GGTTCACCGA AAGTTC	A			17
(2) INFORMATION FO	OR SEQ ID NO:17:			
(A) LENG (B) TYPE (C) STRA	CHARACTERISTICS: GTH: 17 base pairs E: nucleic acid ANDEDNESS: single DLOGY: linear	<i>:</i> ,		
(xi) SEQUENCE	DESCRIPTION: SEQ ID	NO:17:		
AGGTCACTGA CAGGGC	4		•	17

(2) INFORMATION FOR SEQ ID NO. 10:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
GGGTCATTCA GAGTTCA	17
GGGICATICA GAGIICA	17
(2) INFORMATION FOR SEQ ID NO:19:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
AAGCTTAAGG GTTCACCGAA AGTTCACTCA GCTT	34
(2) INFORMATION FOR SEQ ID NO:20:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
AAGCTTAAGG GTTCACCGAA AGTTCACTCG CATAGCTT	38
(2) INFORMATION FOR SEQ ID NO:21:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	

AAGCTTAAGG GTTCACCGAA AGTTCACTCG CATATATTAG CTT

(2) INFORMATION FOR SEQ ID NO:22:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	<i>c</i> (
AGCTCGATGG ACAAGTGCAT TGAACCCTTG AGCTACCTGT TCACGTAACT TGGGAACTTC	60
GA .	62
(2) INFORMATION FOR SEQ ID NO:23:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
CCTGCGCCAC GGCGCCGCC GGAGCTGTGC CTG	33
(2) INFORMATION FOR SEQ ID NO:24:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
GTGGGTATGC GCCTCGAGTG CGTCGTCCC	29
(2) INFORMATION FOR SEQ ID NO:25:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
ACCACAAACC MCA	, -

(2) INFORMATION FOR SEQ ID NO:26:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: unknown	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
ATTGGACAAG TGCATTGAAC CCTTGTCTCT	30
(2) INFORMATION FOR SEQ ID NO:27:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: unknown	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
ATGCTGTGCA TTGAACGTGC TCGA	24
(2) INFORMATION FOR SEQ ID NO:28:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: unknown	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
ATGAAGTGCA TTGAACCCGC TCGA	24
(2) INFORMATION FOR SEQ ID NO:29:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: unknown 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
TAAAGGATCT TGACCCCAAT GAACTTCTTA	30